analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Nina Anderson
Inspectorate America Corporation
12000 Aerospace Ave, Suite 200
Houston TX 77034-5576

Report Number: 69756

Revision: Rev. 0

Re: Sprague Energy (Project No: 4101-11-01)

Enclosed are the results of the analyses on your sample(s). Samples were received on 03 May 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
69756-1	05/03/11	Tank 5- So Portland-201102000412-1	EPA 8260 Volatile Organics	
69756-2	05/03/11	Tank 5- So Portland-201102000412-2	EPA 8260 Volatile Organics	
69756-3	05/03/11	Tank 4- So Portland-201102000412-1	EPA 8260 Volatile Organics	
69756-4	05/03/11	Tank 4- So Portland-201102000412-2	Electronic Data Deliverable	
	05/03/11	Tank 4- So Portland-201102000412-2	EPA 8260 Volatile Organics	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 05/11/2011

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May 11, 2011

CLIENT SAMPLE ID

Project Name: Sprague Energy

Project Number: 4101-11-01

Field Sample ID: Tank 5- So Portland-201102000412-1

SAMPLE DATA

Lab Sample ID: 69756-1
Matrix: Solid
Percent Solid: 100
Dilution Factor: 95
Collection Date: 05/03/11
Lab Receipt Date: 05/03/11
Analysis Date: 05/10/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg	COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg
Chloroethane	47	95	U	1,1-Dichloroethane	47	95	U
Chloroform	47	71	U	1,1-Dichloroethene	47	71	U
Chloromethane	47	95	U	1,1-Dichloropropene	47	95	U
cis-1,2-Dichloroethene	47	95	U	1,2,3-Trichlorobenzene	47	95	U
cis-1,3-Dichloropropene	47	95	U	1,2,3-Trichloropropane	47	95	U
Dibromochloromethane	47	71	U	1,2,4-Trichlorobenzene	47	95	U
Dibromomethane	47	95	U	1,2,4-Trimethylbenzene	47	95	U
Dichlorodifluoromethane	47	95	U	1,2-Dibromo-3-chloropropane	47	95	U
Ethylbenzene	47	95	U	1,2-Dibromoethane	47	71	U
Freon-113	47	95	U	1,2-Dichlorobenzene	47	95	U
Hexachlorobutadiene	47	95	U	1,2-Dichloroethane	47	71	U
Isopropl benzene	47	95	U	1,2-Dichloropropane	47	71	U
m,p-Xylene	47	95	U	1,3,5-Trimethylbenzene	47	95	U
Methyl-tert-butyl ether (MTBE)	47	71	U	1,3-Dichlorobenzene	47	95	U
Methylene chloride	237	474	U	1,3-Dichloropropane	47	95	U
Naphthalene	47	95	U	1,4-Dichlorobenzene	47	95	U
n-Butylbenzene	47	95	U	2,2-Dichloropropane	47	95	U
n-Propylbenzene	47	95	U	Methyl ethyl ketone	474	948	U
o-Xylene	47	95	U	2-Chlorotoluene	47	95	U
sec-Butylbenzene	47	95	U	2-Hexanone	474	948	U
Styrene	47	95	U	4-Chlorotoluene	47	95	U
tert-Butylbenzene	47	95	U	4-Isopropyltoluene	47	95	U
Tetrachloroethene	47	95	U	4-Methyl-2-pentanone	474	948	U
Tetrahydrofuran	237	474	U	Acetone	474	948	U
Toluene	47	95	U	Benzene	47	95	U
trans-1,2-Dichloroethene	47	95	U	Bromobenzene	47	95	U
trans-1,3-Dichloropropene	47	95	U	Bromochloromethane	47	95	U
Trichloroethene	47	95	U	Bromodichloromethane	47	71	U
Trichlorofluoromethane	47	95	U	Bromoform	47	71	U
Vinyl chloride	47	95	U	Bromomethane	47	95	U
Xylenes (total)	47	95	U	Carbon Disulfide	47	95	U
1,1,1,2-Tetrachloroethane	47	95	U	Carbon tetrachloride	47	95	U
1,1,1-Trichloroethane	47	95	U	Chlorobenzene	47	95	U
1,1,2,2-Tetrachloroethane	47	71	U	(TIC) n-Heptane	NA	NA	NF
1,1,2-Trichloroethane	47	71	U	(TIC) n-Hexane	NA	NA	NF

Surrogate Standard Recovery

Bromofluorobenzene	91%	d4-1,2-Dichloroethane	97%	d8-Toluene	99%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B. Results between the LOD and LOQ are reported as estimated (J flag). Difficult compounds and laboratory contaminants are not reported below the LOQ

COMMENTS: Results are expressed on a dry weight basis. TIC=Tentatively Identified Compound. NF=Not Found using NIST library search criteria. Sample collection and analysis in accordance with SW-846 method 5035A.

set2Column2TierWTICs:Res(0):Rec(0) - Inspectorate_OIL_2Tier_wTICS

Authorized signature

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May 11, 2011

CLIENT SAMPLE ID

Project Name: Sprague Energy

Project Number: 4101-11-01

Field Sample ID: Tank 5- So Portland-201102000412-2

SAMPLE DATA

Lab Sample ID: 69756-2
Matrix: Solid
Percent Solid: 100
Dilution Factor: 89
Collection Date: 05/03/11
Lab Receipt Date: 05/03/11
Analysis Date: 05/10/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg	COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg
Chloroethane	44	89	U	1,1-Dichloroethane	44	89	U
Chloroform	44	67	U	1,1-Dichloroethene	44	67	U
Chloromethane	44	89	U	1,1-Dichloropropene	44	89	U
cis-1,2-Dichloroethene	44	89	U	1,2,3-Trichlorobenzene	44	89	U
cis-1,3-Dichloropropene	44	89	U	1,2,3-Trichloropropane	44	89	U
Dibromochloromethane	44	67	U	1,2,4-Trichlorobenzene	44	89	U
Dibromomethane	44	89	U	1,2,4-Trimethylbenzene	44	89	U
Dichlorodifluoromethane	44	89	U	1,2-Dibromo-3-chloropropane	44	89	U
Ethylbenzene	44	89	U	1,2-Dibromoethane	44	67	U
Freon-113	44	89	U	1,2-Dichlorobenzene	44	89	U
Hexachlorobutadiene	44	89	U	1,2-Dichloroethane	44	67	U
Isopropl benzene	44	89	U	1,2-Dichloropropane	44	67	U
m,p-Xylene	44	89	U	1,3,5-Trimethylbenzene	44	89	U
Methyl-tert-butyl ether (MTBE)	44	67	U	1,3-Dichlorobenzene	44	89	U
Methylene chloride	222	444	U	1,3-Dichloropropane	44	89	U
Naphthalene	44	89	U	1,4-Dichlorobenzene	44	89	U
n-Butylbenzene	44	89	U	2,2-Dichloropropane	44	89	U
n-Propylbenzene	44	89	U	Methyl ethyl ketone	444	888	U
o-Xylene	44	89	U	2-Chlorotoluene	44	89	U
sec-Butylbenzene	44	89	U	2-Hexanone	444	888	U
Styrene	44	89	U	4-Chlorotoluene	44	89	U
tert-Butylbenzene	44	89	U	4-Isopropyltoluene	44	89	U
Tetrachloroethene	44	89	U	4-Methyl-2-pentanone	444	888	U
Tetrahydrofuran	222	444	U	Acetone	444	888	U
Toluene	44	89	U	Benzene	44	89	U
trans-1,2-Dichloroethene	44	89	U	Bromobenzene	44	89	U
trans-1,3-Dichloropropene	44	89	U	Bromochloromethane	44	89	U
Trichloroethene	44	89	U	Bromodichloromethane	44	67	U
Trichlorofluoromethane	44	89	U	Bromoform	44	67	U
Vinyl chloride	44	89	U	Bromomethane	44	89	U
Xylenes (total)	44	89	U	Carbon Disulfide	44	89	U
1,1,1,2-Tetrachloroethane	44	89	U	Carbon tetrachloride	44	89	U
1,1,1-Trichloroethane	44	89	U	Chlorobenzene	44	89	U
1,1,2,2-Tetrachloroethane	44	67	U	(TIC) n-Heptane	NA	NA	NF
1,1,2-Trichloroethane	44	67	U	(TIC) n-Hexane	NA	NA	NF

Surrogate Standard Recovery

Bromofluorobenzene	125%	d4-1,2-Dichloroethane	143*%	d8-Toluene	131*%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B. Results between the LOD and LOQ are reported as estimated (J flag). Difficult compounds and laboratory contaminants are not reported below the LOQ

COMMENTS: Results are expressed on a dry weight basis. TIC=Tentatively Identified Compound. NF=Not Found using NIST library search criteria. Sample collection and analysis in accordance with SW-846 method 5035A.
*Surrogate recovery outside of laboratory acceptance criteria. Sample was reanalyzed to confirm results.

set2Column2TierWTICs:Res(0):Rec(0) - Inspectorate_OIL_2Tier_wTICS

Authorized signature

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May 11, 2011

CLIENT SAMPLE ID

Project Name: Sprague Energy

Project Number: 4101-11-01

Field Sample ID: Tank 4- So Portland-201102000412-1

SAMPLE DATA

Lab Sample ID: 69756-3
Matrix: Solid
Percent Solid: 100
Dilution Factor: 90
Collection Date: 05/03/11
Lab Receipt Date: 05/03/11
Analysis Date: 05/10/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg	COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg
Chloroethane	45	90	U	1,1-Dichloroethane	45	90	U
Chloroform	45	68	U	1,1-Dichloroethene	45	68	U
Chloromethane	45	90	U	1,1-Dichloropropene	45	90	U
cis-1,2-Dichloroethene	45	90	U	1,2,3-Trichlorobenzene	45	90	U
cis-1,3-Dichloropropene	45	90	U	1,2,3-Trichloropropane	45	90	U
Dibromochloromethane	45	68	U	1,2,4-Trichlorobenzene	45	90	U
Dibromomethane	45	90	U	1,2,4-Trimethylbenzene	45	90	U
Dichlorodifluoromethane	45	90	U	1,2-Dibromo-3-chloropropane	45	90	U
Ethylbenzene	45	90	U	1,2-Dibromoethane	45	68	U
Freon-113	45	90	U	1,2-Dichlorobenzene	45	90	U
Hexachlorobutadiene	45	90	U	1,2-Dichloroethane	45	68	U
Isopropl benzene	45	90	U	1,2-Dichloropropane	45	68	U
m,p-Xylene	45	90	U	1,3,5-Trimethylbenzene	45	90	U
Methyl-tert-butyl ether (MTBE)	45	68	U	1,3-Dichlorobenzene	45	90	U
Methylene chloride	225	451	U	1,3-Dichloropropane	45	90	U
Naphthalene	45	90	U	1,4-Dichlorobenzene	45	90	U
n-Butylbenzene	45	90	U	2,2-Dichloropropane	45	90	U
n-Propylbenzene	45	90	U	Methyl ethyl ketone	451	901	U
o-Xylene	45	90	U	2-Chlorotoluene	45	90	U
sec-Butylbenzene	45	90	U	2-Hexanone	451	901	U
Styrene	45	90	U	4-Chlorotoluene	45	90	U
tert-Butylbenzene	45	90	U	4-Isopropyltoluene	45	90	U
Tetrachloroethene	45	90	U	4-Methyl-2-pentanone	451	901	U
Tetrahydrofuran	225	451	U	Acetone	451	901	U
Toluene	45	90	U	Benzene	45	90	U
trans-1,2-Dichloroethene	45	90	U	Bromobenzene	45	90	U
trans-1,3-Dichloropropene	45	90	U	Bromochloromethane	45	90	U
Trichloroethene	45	90	U	Bromodichloromethane	45	68	U
Trichlorofluoromethane	45	90	U	Bromoform	45	68	U
Vinyl chloride	45	90	U	Bromomethane	45	90	U
Xylenes (total)	45	90	U	Carbon Disulfide	45	90	U
1,1,1,2-Tetrachloroethane	45	90	U	Carbon tetrachloride	45	90	U
1,1,1-Trichloroethane	45	90	U	Chlorobenzene	45	90	U
1,1,2,2-Tetrachloroethane	45	68	U	(TIC) n-Heptane	NA	NA	NF
1,1,2-Trichloroethane	45	68	U	(TIC) n-Hexane	NA	NA	NF

Surrogate Standard Recovery

Bromofluorobenzene	90%	d4-1,2-Dichloroethane	97%	d8-Toluene	102%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B. Results between the LOD and LOQ are reported as estimated (J flag). Difficult compounds and laboratory contaminants are not reported below the LOQ

COMMENTS: Results are expressed on a dry weight basis. TIC=Tentatively Identified Compound. NF=Not Found using NIST library search criteria. Sample collection and analysis in accordance with SW-846 method 5035A.

set2Column2TierWTICs:Res(0):Rec(0) - Inspectorate_OIL_2Tier_wTICS

Authorized signature

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May 11, 2011

CLIENT SAMPLE ID

Project Name: Sprague Energy

Project Number: 4101-11-01

Field Sample ID: Tank 4- So Portland-201102000412-2

SAMPLE DATA

Lab Sample ID: 69756-4
Matrix: Solid
Percent Solid: 100
Dilution Factor: 88
Collection Date: 05/03/11
Lab Receipt Date: 05/03/11
Analysis Date: 05/10/11

ANALYTICAL RESULTS VOLATILE ORGANICS

COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg	COMPOUND	Limit of Detection (LOD) µg/kg	Limit of Quantitation (LOQ) µg/kg	Result µg/kg
Chloroethane	44	88	U	1,1-Dichloroethane	44	88	U
Chloroform	44	66	U	1,1-Dichloroethene	44	66	U
Chloromethane	44	88	U	1,1-Dichloropropene	44	88	U
cis-1,2-Dichloroethene	44	88	U	1,2,3-Trichlorobenzene	44	88	U
cis-1,3-Dichloropropene	44	88	U	1,2,3-Trichloropropane	44	88	U
Dibromochloromethane	44	66	U	1,2,4-Trichlorobenzene	44	88	U
Dibromomethane	44	88	U	1,2,4-Trimethylbenzene	44	88	U
Dichlorodifluoromethane	44	88	U	1,2-Dibromo-3-chloropropane	44	88	U
Ethylbenzene	44	88	U	1,2-Dibromoethane	44	66	U
Freon-113	44	88	U	1,2-Dichlorobenzene	44	88	U
Hexachlorobutadiene	44	88	U	1,2-Dichloroethane	44	66	U
Isopropl benzene	44	88	U	1,2-Dichloropropane	44	66	U
m,p-Xylene	44	88	U	1,3,5-Trimethylbenzene	44	88	U
Methyl-tert-butyl ether (MTBE)	44	66	U	1,3-Dichlorobenzene	44	88	U
Methylene chloride	220	439	U	1,3-Dichloropropane	44	88	U
Naphthalene	44	88	U	1,4-Dichlorobenzene	44	88	U
n-Butylbenzene	44	88	U	2,2-Dichloropropane	44	88	U
n-Propylbenzene	44	88	U	Methyl ethyl ketone	439	878	U
o-Xylene	44	88	U	2-Chlorotoluene	44	88	U
sec-Butylbenzene	44	88	U	2-Hexanone	439	878	U
Styrene	44	88	U	4-Chlorotoluene	44	88	U
tert-Butylbenzene	44	88	U	4-Isopropyltoluene	44	88	U
Tetrachloroethene	44	88	U	4-Methyl-2-pentanone	439	878	U
Tetrahydrofuran	220	439	U	Acetone	439	878	U
Toluene	44	88	U	Benzene	44	88	U
trans-1,2-Dichloroethene	44	88	U	Bromobenzene	44	88	U
trans-1,3-Dichloropropene	44	88	U	Bromochloromethane	44	88	U
Trichloroethene	44	88	U	Bromodichloromethane	44	66	U
Trichlorofluoromethane	44	88	U	Bromoform	44	66	U
Vinyl chloride	44	88	U	Bromomethane	44	88	U
Xylenes (total)	44	88	U	Carbon Disulfide	44	88	U
1,1,1,2-Tetrachloroethane	44	88	U	Carbon tetrachloride	44	88	U
1,1,1-Trichloroethane	44	88	U	Chlorobenzene	44	88	U
1,1,2,2-Tetrachloroethane	44	66	U	(TIC) n-Heptane	NA	NA	NF
1,1,2-Trichloroethane	44	66	U	(TIC) n-Hexane	NA	NA	NF

Surrogate Standard Recovery

Bromofluorobenzene	90%	d4-1,2-Dichloroethane	89%	d8-Toluene	94%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis was conducted according to: Test Methods for Evaluating Solid Waste, SW-846 Method 8260B. Results between the LOD and LOQ are reported as estimated (J flag). Difficult compounds and laboratory contaminants are not reported below the LOQ

COMMENTS: Results are expressed on a dry weight basis. TIC=Tentatively Identified Compound. NF=Not Found using NIST library search criteria. Sample collection and analysis in accordance with SW-846 method 5035A.

set2Column2TierWTICs:Res(0):Rec(0) - Inspectorate_OIL_2Tier_wTICS

Authorized signature 

INSPECTORATE

Chain of Custody Form

Project Name: Sprague Energy
Project #: 4101-11-01
IAC Office: South Portland Maine
IAC Job No.: 020-0003827
Terminal: Sprague Avery Lane
Samples iced: Yes No
Analysis: **EPA 8260B/5035**
Matrix: **Organic**
Preservation: **Methanol**

Send Report: nina.anderson@inspectorate.com
12000 aerospace avenue, suite 200
Houston, TX 77034
Temp of Control 6.9 °C
TAT: 5 days

Sample No (*)	Sample Date	Sample Time	Tank No.	Sampled By	Product Grade	Sample
Tank 4-So Portland-201102000412-1	5/3/2011		Tank 4	Mark Bickford	Asphalt Pg 64-28	Spigot
Tank 4-So Portland-201102000412-2`	5/3/2011		Tank 4	Mark Bickford	Asphalt Pg 64-28	Spigot
Tank 5-So Portland-201102000412-1	5/3/2011		Tank 5	Mark Bickford	Asphalt Pg 64-28	Spigot
Tank 5-So Portland-201102000412-2`	5/3/2011		Tank 5	Mark Bickford	Asphalt Pg 64-28	Spigot

cp 5/3/11 69756
~~69746~~
1 - 3
2 - 4
3 - 1
4 - 2

Sprague Representative:
Date/Time: 5/3/11 0930

Received By:
Date/Time: 5/3/11 11:15

Received By:
Date/Time:

Relinquished by: Mark Bickford
Date/Time: 5-3-11 1115

Relinquished by:
Date/Time:

(*) see email, sample labels don't match COC - cp 5/4/11

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: ~~69746~~ 69756 5/4/11 JB

CLIENT: Inspectorate

PROJECT: Sprague

COOLER NUMBER: none

NUMBER OF COOLERS: 0

DATE RECEIVED: 5/3/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 5/3/11

1. Cooler received by(initials): DW — Date Received: 5/3/11

2. Circle one: (Hand delivered (If so, skip 3)) Shipped

3. Did cooler come with a shipping slip? Y (N/A)

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: — Seal Date: — Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y (N/A)

6. COC#. _____

7. Were Custody papers filled out properly (ink,signed, etc)?	(Y)	N
8. Were custody papers sealed in a plastic bag?	Y	(N)
9. Did you sign the COC in the appropriate place?	(Y)	N
10. Was the project identifiable from the COC papers?	(Y)	N

11. Was enough ice used to chill the cooler? Y (N) Temp. of cooler: 6.9° sampled today

B. Log-In: Date samples were logged in: 5/4/11 By: JB

12. Type of packing in cooler (bubble wrap) popcorn)	(Y)	N
13. Were all bottles sealed in separate plastic bags?	(Y)	N
14. Did all bottles arrive unbroken and were labels in good condition?	(Y)	N
15. Were all bottle labels complete(ID,Date,time,etc.)	(Y)	N
16. Did all bottle labels agree with custody papers?	Y	(N) - see email
17. Were the correct containers used for the tests indicated:	(Y)	N
18. Were samples received at the correct pH?	Y	(N/A)
19. Was sufficient amount of sample sent for the tests indicated?	(Y)	N
20. Were all samples submitted within holding time?	(Y)	N
21. Were bubbles absent in VOA samples?	Y	(N/A)

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): CP Date: 5/4/11